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| 09/883,750 | | 06/18/2001 | Michael J. Suman | 026032-3084 | 1739 |
| 26371 | 7590 | 04/20/2004 | | EXAMINER | |
| FOLEY & LARDNER 777 EAST WISCONSIN AVENUE | | | | DALENCOURT, YVES | |
| 7/7 EAS1 SUITE 380 | | INSIIN AVENUE | | ART UNIT | PAPER NUMBER |
| | - | 7I 53202-5308 | | 2157 | 8 |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| Application N Office Action Summary Application N Og/883,750 SUMAN ET AL. Examiner Yves Dalencourt 2157 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estensions of time may be available under the provisions of 37 CPR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to bom AHS/from the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 January 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. |
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| Office Action Summary Examiner |
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| 5) Claim(s) is/are allowed. |
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| |
| 6)⊠ Claim(s) <u>1-20</u> is/are rejected. |
| 7) Claim(s) is/are objected to. |
| 8) Claim(s) are subject to restriction and/or election requirement. |
| Application Papers |
| 9) The specification is objected to by the Examiner. |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. |
| Priority under 35 U.S.C. § 119 |
| 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. |
| 2. Certified copies of the priority documents have been received in Application No |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). |
| * See the attached detailed Office action for a list of the certified copies not received. |
| cos the attached conce determent a net of the contined copies not received. |
| Attachment(s) |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>7</u> . 6) Other: |

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DETAILED ACTION

This office action is responsive to amendment filed on 01/28/04.

Response to Amendment

The examiner has acknowledged the new abstract, and the amended claims 1 - 3, 5, 9 - 10, 12, 14, and 20.

Response to Arguments

Applicant's arguments with respect to claims 1 - 20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 10, and 14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claim 1, the limitations of "a first remote device (lines 3 and 6 and a second remote device (lines 7 and 10) are not disclosed. The examiner is unable to find a first and a second remote device in the specification. A remote device and a trainable transceiver have been disclosed. However, it has not been defined which one is

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considered either first or second remote device since both have been disclosed in the specification as being attached to a surface on an interior of the vehicle as opposed to figure 1, where remote device 29 is not attached to the vehicle. Therefore, one skilled in the art would not know how to make and/or use the invention.

Claims 1, 10, and 14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 1, 10, and 14, the limitations of "a first remote device configured to attach to a surface on an interior of the vehicle " (claim 1, line 3); "wherein the switch unit is coupled to the vehicle interior (claim 10, line 7); and "a remote device configured to attach to an interior surface of the vehicle (claim 14, line 5) are not enabled. It has not been disclosed how such limitations are taken place. For example, on page 8, paragraph 0028, the remote control device or switch 29 can be considered as the first remote configured to attach on an interior of the vehicle. However, looking at figure 1, the trainable transceiver is the one being attached to the vehicle interior (see paragraph 0022), while element 29 is communicating wirelessly with the transceiver (paragraph 0023). Therefore, one skilled in the art would not know how to make and/or use the invention. **Some clarification is necessary.**

Claims 2 - 9, 11 - 13, and 15 - 20 are necessarily rejected as being dependent upon the rejections of claims 1, 10, and 14.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 – 4, 6 – 10, 12 - 16, and 18 - 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenneth E. Flick (US 6392534; hereinafter Flick) in view of Crimmins et al (US 6181255; hereinafter Crimmins).

Regarding claims 1, 4, and 9, Flick teaches a receiver (24, figure 1) for use in a vehicle for communicating between an actuator (26, 27, 32, figure 1) disposed within the vehicle for controlling the operation of a vehicle feature and a first remote device configured to attach to a surface on an interior of the vehicle (50, figure 1), the receiver

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comprising an antenna for receiving a first wireless signal (see receiving antenna in figure 1), the wireless signal generated by the first remote device and including a control command and a second wireless signal generated by a second remote device (figure 1; col. 5, lines 22 - 42); a controller coupled to said antenna (23, figure 1); wherein the controller is configured to enter a learning mode (col. 8, lines 17 - 27).

Flick teaches all the limitations, but fails to specifically teach that the controller learns a function of the second remote control device, wherein the controller is configured to receive the control command on the first wireless signal and to communicate the control command to the actuator for execution (claim 1); wherein the antenna is a dynamically tunable antenna (claim 4); and wherein said first remote device is configured is in a shape useful for attachment to a vehicle interior.

However, Crimmins teaches, in the same field of endeavor, a multi-frequency radio frequency transmitter with code learning capability which comprises a controller polls a plurality of wireless frequencies to detect the wireless signal (col. 3, lines 14 - 34), wherein the controller is configured to receive and interpret the control command on the wireless signal and to communicate the control command to the actuator for execution (col. 4, lines 46 – 56; col. 6, lines 33 - 36); wherein the antenna is a dynamically tunable antenna (col. 4, lines 27 - 40); and wherein said receiver and said remote control device communicate in the radio frequency spectrum (col. 10, lines 36 – 38).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a controller which polls a plurality of wireless

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frequencies to detect the wireless signal, wherein the controller is configured to receive and interpret the control command on the wireless signal and to communicate the control command to the actuator for execution in Flick's device as evidenced by Crimmins because Flick teaches a controller that may be switched to a transmitter learning mode for permitting the addition of new uniquely coded remote transmitters and Crimmins further teaches the idea of polling frequencies to detect the wireless signal to perform control commands for the purpose of providing a system which learns and transmits coded signals at multiple frequencies without the cost and complexity of prior system (see col. 2, lines 25 – 28).

Regarding claim 2, Flick and Crimmins teach all the limitations on claim 1, and Flick further teaches a receiver, which is configured for wireless transmission of a signal the learned function of the second remote control device (col. 10, lines 40 - 42).

Regarding claim 3, Flick and Crimmins teach all the limitations on claim 1, and Flick further teaches a receiver, wherein the first remote device (50) is substantially free of wiring to a vehicle control bus (50, figure 1; col. 5, lines 36 – 40).

Regarding claim 6, Flick and Crimmins teach all the limitations on claim 1, and Flick further teaches a receiver, wherein the controller is electrically coupled to the actuator via a bus (22, figure 1; col. 5, lines 29 - 35).

Regarding claim 7, Flick and Crimmins teach all the limitations on claim 1, and Flick further teaches a receiver, wherein the bus includes a multiplexed automotive instrumentation network (col. 2, lines 4 – 51).

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Regarding claim 8, Flick and Crimmins teach all the limitations on claim 1, and Flick further teaches a receiver, wherein said multiplexed automotive instrumentation network operates under the J1850 standard (col. 2, lines 49 - 58).

Regarding claim 10, Flick teaches a method of controlling an actuator within a vehicle (26, 27, 32, figure 1) with a first RF signal from a switch unit (50, figure 1), the first RF signal having a control command, the method comprising the steps of receiving the control command from the switch unit via the first RF signal, wherein the switch unit is coupled to the vehicle interior (24, figure 1; col. 5, lines 22 - 28); and providing the control command to the actuator disposed within the vehicle for controlling the operation of a vehicle feature (figure 1; col. 5, lines 29 - 51).

Flick teaches all the limitations, but fails to specifically teach the steps of polling a plurality of frequencies to locate a frequency of a second signal from a remote device.

However, Crimmins teaches, in the same field of endeavor, a multi-frequency radio frequency transmitter with code learning capability, which comprises the steps of polling a plurality of frequencies to locate a frequency of a second signal from a remote device (col. 3, lines 14 – 34).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the steps of polling a plurality of frequencies to locate a frequency of a second signal from a remote device in Flick's device as evidenced by Crimmins because Flick teaches a controller that may be switched to a transmitter learning mode for permitting the addition of new uniquely coded remote transmitters and Crimmins further teaches the idea of polling a plurality of frequencies to locate a

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frequency of a second signal from a remote device for the purpose of providing a system which learns and transmits coded signals at multiple frequencies without the cost and complexity of prior system (see col. 2, lines 25 – 28).

Regarding claim 12, Flick and Crimmins teach all the limitations on claim 10, and Flick further teaches the steps of providing the control command that includes providing the control command over a bus to the actuator (22, figure 1; col. 5, lines 29 - 35).

Regarding claim 13, Flick and Crimmins teach all the limitations on claim 12, and Flick further teaches that the bus is an automotive multiplex network (col. 2, lines 4 - 51).

Regarding claims 14 and 20, Flick teaches an RF control system in a vehicle (figure 1) comprising a trainable transceiver (20, figure 1) including memory, and a communications interface to a control bus in the vehicle (col. 6, lines 8 - 23); an antenna electrically coupled to said trainable transceiver (see figure 1; element attached to receiver 24); a remote device configured to attach to an interior surface of the vehicle (50, figure 1), wherein the remote device is configured to generate an RF signal, the trainable transceiver configured to receive the RF signal (24, figure 1; col. 5, lines 22 - 28); wherein said trainable transceiver receives a control command from said remote device, via the RF signal, and transfers the control command to the control bus of the vehicle to be executed (figure 1; col. 5, lines 29 - 51); wherein the controller is configured to enter a learning mode (col. 8, lines 17 – 27).

Flick teaches all the limitations, but fails to specifically teach that the trainable transceiver is configured to train to perform a function of an original transmitter (claim

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14); and wherein the remote device conforms to a shape and look of an interior door or instrument panel (claim 20).

However, Crimmins teaches, in the same field of endeavor, a multi-frequency radio frequency transmitter with code learning capability, which comprises a trainable transceiver configured to train to perform a function of an original transmitter (col. 3, lines 14 - 34); and wherein the remote device conforms to a shape and look of an interior door or instrument panel (col. 10, lines 36 – 38).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a trainable transceiver configured to train to perform a function of an original transmitter; and wherein the remote device conforms to a shape and look of an interior door or instrument panel in Flick's device as evidenced by Crimmins because Flick teaches a controller that may be switched to a transmitter learning mode for permitting the addition of new uniquely coded remote transmitters and Crimmins further teaches the idea of polling frequencies to detect the RF signal to perform control commands for the purpose of providing a system which learns and transmits coded signals at multiple frequencies without the cost and complexity of prior system (see col. 2, lines 25 – 28).

Regarding claim 15, Flick and Crimmins teach all the limitations on claim 14, and Flick further teaches a control system, wherein the trainable transceiver includes transmission capabilities (col. 10, lines 40 - 42).

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Regarding claim 16, Flick and Crimmins teach all the limitations on claim 14, and Flick further teaches a control system, wherein the remote device is free of wiring to the control bus and mounted to the vehicle interior (50, figure 1; col. 5, lines 36 – 40).

Regarding claim 18, Flick and Crimmins teach all the limitations on claim 14, and Flick further teaches a control system, wherein the control bus of the vehicle includes a multiplexed automotive instrumentation network (col. 2, lines 4 – 51).

Regarding claim 19, Flick and Crimmins teach all the limitations on claim 18, and Flick further teaches a control system, wherein the multiplexed automotive instrumentation network operates under the J1850 standard (col. 49 - 58).

Claims 5, 11, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenneth E. Flick (US 6392534; hereinafter Flick) in view of Crimmins et al (US 6181255; hereinafter Crimmins) and further in view of Hayden et al (US 6198244; hereinafter Hayden).

Regarding claim 5, Flick and Crimmins teach all the limitations on claim 1, but fail to specifically teach an actuator, which is a seat heater controlled by said first remote device.

However, Hayden teaches, in the same field of endeavor, an electronic architecture for controlling a motor vehicle seat, which comprises an actuator, which is a seat heater controlled by said remote device (figure 7; col. 2, lines 8 – 11; col. 6, lines 49 – 60).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used an actuator, which is a seat heater controlled by said

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remote device in Flick and Crimmins's device as evidenced by Hayden because Flick and Crimmins teach controlling doors and trunk of a vehicle and Hayden further teaches a seat heater controlled by said remote device for the purpose of sharply reducing the volume and mass of the mechanism resulting in further economies (col. 2, lines 21 – 24).

Regarding claim 11, Flick and Crimmins teach all the limitations on claim 10, but fail to specifically teach that the control command is a vehicle seat control command.

However, Hayden teaches, in the same field of endeavor, an electronic architecture for controlling a motor vehicle seat, which comprises a control command, which is a vehicle seat control command (figure 7; col. 2, lines 8 – 11; col. 6, lines 49 – 60).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a control command, which is a vehicle seat control command in Flick and Crimmins's device as evidenced by Hayden because Flick and Crimmins teach controlling doors and trunk of a vehicle and Hayden further teaches a control command, which is a vehicle seat control command for the purpose of sharply reducing the volume and mass of the mechanism resulting in further economies (col. 2, lines 21 - 24).

Regarding claim 17, Flick and Crimmins teach all the limitations on claim 14, but fail to specifically teach an actuator, which is a seat heater controlled by said remote device.

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However, Hayden teaches, in the same field of endeavor, an electronic architecture for controlling a motor vehicle seat, wherein the control bus is coupled to a seat heater, the control command actuating the seat heater (figure 7; col. 2, lines 8 – 11; col. 6, lines 49 – 60).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a control bus, which is coupled to a seat heater, the control commands actuating the seat heater in Flick and Crimmins's device as evidenced by Hayden because Flick and Crimmins teach controlling doors and trunk of a vehicle and Hayden further teaches a seat heater controlled by said remote device for the purpose of sharply reducing the volume and mass of the mechanism resulting in further economies (col. 2, lines 21 - 24).

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yves Dalencourt whose telephone number is (703) 308-8547. The examiner can normally be reached on M-TH 7:30AM - 6: 30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703) 308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yves Dalencourt

April 8, 2004

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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